No.



9600057

HHE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Threas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW INSUCHCASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR ROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS DD. 7 U.S.C. 2321 ET SEO.)

SOYBEAN

'9255'

In Actimoun Mocrost, I have hereunto set my hand and caused the seal of the Mant Daricto Arotextion Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

Attest:

Ann more thro

Commissioner

Plant Variety Frotection Office Socientimal Worksting Service Secretary of Syrindline

REPRODUCE LOCALLY. Include form number and U.S. DEPARTMENT OF ACRICA	uate on all reproductions. ILTURE	The fall :	FORM APPROVED - OMB NO. 0581-00
AGRICULTURAL MARKETING S SCIENCE DIVISION - PLANT VARIETY PRO	ERVICE	1974 (5 U.S.C. 552a).	vade in accordance with the Privacy Act
APPLICATION FOR PLANT VARIETY PRO	TECTION CERTIFICATE	Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.	to determine if a plant variety protection is held confidention. C. 2421). Information is held confidentic. 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International	, Inc.		9255
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Co.	trie and Country		·
700 Capital Square	, and abantay	6. TELEPHONE finclude area code;	FOR OFFICIAL USE ONLY
400 Locust St.		515/270-3582	PVPO NUMBER
Des Moines, IA 50309	•		9600057
200 110111101, 111 30307		8. FAX (include area code)	F DATE
		515/253-2288	i Nov. 22 1995
7. GENUS AND SPECIES NAME	B. FAMILY NAME (Sotanical)	G PILING AND EXAMINATION FEE:
Glycine Max	Legumin	nosae	1.2450 4
9. CROP KIND NAME (Common name)			DATE
Soybean			. NOV 22 1995
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM O	F ORGANIZATION (corporation, part	nership, essociation, atc.1 (Common name)	CENTIFICATION FEE:
COLPOTATION		24 summerly areast strongericum smithel	1.300.00
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE
Iowa		1926	7/2/1999
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF A	NY, TO SERVE IN THIS APPLICATI	ON AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)
John Grace	Mike Roth		
7300 NW 62nd Ave.		al Square	515/270-3582
PO Box 1004	400 Locus		15. FAX Enclude area code)
Johnston, IA 50131-1004		s, IA 50309	515/253-2288
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITT			313/233-2200
a. 🗵 Exhibit A. Origin and Breading History of the Variety	tu (Follow instructions on reverse)		
b. 🖾 Exhibit B. Statement of Distinctness		•	
c. 🔯 Exhibit C. Objective Description of the Verlety			
d. 🔯 Exhibit D. Additional Description of the Variety			
s. 🔀 Exhibit E. Statement of the Basis of the Applicant's Owns	valia		
Voucher Semple (2,500 viable untreated seeds or, for tube Filing and Examination Fee (\$2,450), made payable to "Tree"	repagated varieties verification th	et tissue culture will be deposited and maintain	red in a public rapository)
. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BI	E SOLD BY VARIETY NAME ONLY	AS A SI ASS ST STORY	
	DO NO ## "no,"	AS A CLASS OF CERTIFIED SEED? \See Section on to item 20)	on 83(e) of the Plant Veriety Protection Act)?
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BIGENERATIONS? YES ONO	LIMITED AS TO NUMBER OF	19. IF "YES" TO ITEM 18, WHICH CLASSES	
. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY	/ REFN REI EAREN WORN OFFI	FOUNDATION REGISTER	ED CERTIFIED
YES #/ "yes," give names of countries and detes!	NO	FUN SALE, OR MARKETED IN THE U.S. OR C	OTHER COUNTRIES?
			•
. The applicant(s) decises that a visible exercise of hard	debuggith has 6		
 The applicant(s) declare that a viable sample of basic seed of the va- applicable, or for a tuber propagated variety a tissue culture will be 	deposited in a public repository and	In and Will be replenished upon request in accordance maintained for the duration of the cartificate.	rdance with such regulations as may be
The undersigned expligantial interest the averages of this approach,			stinet suifarm and stable as a 12 st
		i cieti	ener, unioni, and stope as required in
Applicant(s) is(are) informed that false representation herein can jeop			
	SIGNA	TURE OF APPLICANT (Owner(a))	
ME (Please print or type)			
D. John Grace III	INAME	(Please print or type)	
ACITY OR TITLE	DATE / CAPAC	ITY OR TITLE	
Soybean Research Coordinator	11/6/00	ALL OR HISE	DATE
-470 (04-95) (Previous editions are to be destroyed)	107.00		

Exhibit A: Origin and Breeding History

Breeding History of 9255 Soybean

Variety 9255 evolved from a cross made in 1987 of CM293 and ST2250. The population from which 9255 was derived was advanced, to the F3 generation in the winter of 1987-88. An F4 preliminary yield trial was conducted in the summer of 1989. Subsequently, 9255 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable with no evidence of variants.

5 acres of breeders seed were grown in Iowa in 1993. 176 acres of foundation seed equivalent were grown in 1994. On the basis of its exceptional yield record, 9255 was named in 1995.

'9255' was advanced to the single plant selection by single seed descent. '9255' was selected based upon high yield for its maturity.

Exhibit B: Novelty Statement

To our knowledge, soybean variety '9255' is most similar to DSR151, DPL675, FFR646, F3770, H5070, S3332, ST1590, CX314 and ST2660.

Differences between '9255' and varieties stated above.

Difference
DSR151 is resistant to races 1 & 2 of Phytophthora root rot, 9255 is not. DPL675 is resistant to races 1 & 2 of Phytophthora root rot, 9255 is not. FFR646 is resistant to soybean cyst nematode races 3 and 14, 9255 is not. F3770 is resistant to race 1 of Phytophthora root rot, 9255 is not.
H5070 is resistant to races 1,2,3 and 7 of Phytophthora, 9255 is not. S3332 contains the Rps3 gene for resistance to Phytophthora, 9255 does not.
ST1590 is 5 to 7 days earlier in maturity than 9255. CX314 us 5 to 7 days later in maturity than 9255. ST2660 is resistant to race 1 of Phytophthora root rot, 9255 is not.

EXHIBI"

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	hen number is 9 or less (e.g., 0 on. Other characters should be described. L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
A00 Locust Street Des Moines, IA 50309 Choose the appropriate response which characterizes the variety in the features described in your answer is fewer than the number of boxes provided, place a zero in the first box we Starred characters ★ are considered fundamental to an adequate soybean variety description when information is available. 1. SEED SHAPE: 1	PVPO NUMBER 960057 below. When the number of signification number is 9 or less (e.g., 0) on. Other characters should be descripted. L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
Des Moines, IA 50309 Choose the appropriate response which characterizes the variety in the features described in your answer is fewer than the number of boxes provided, place a zero in the first box we Starred characters are considered fundamental to an adequate soybean variety description when information is available. 1. SEED SHAPE: 1	below. When the number of signification number is 9 or less (e.g., 0 on. Other characters should be described.) L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
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1. SEED SHAPE: 1	_/T ratio > 1.2; T/W > 1.2)
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 2 = Spherical Flattened (3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 2 = Spherical Flattened (4 = Elongate Flattened (4 = Elo	_/T ratio > 1.2; T/W > 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 4 = Elongate Flattened (2. SEED COAT COLOR: (Mature Seed) 1	_/T ratio > 1.2; T/W > 1.2)
1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other (3. SEED COAT LUSTER: (Mature Hand Shelled Seed) 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17') 2 = Shiny ('Nebsoy'; 'Gasoy 17') 3 SEED SIZE: (Mature Seed) 5 Grams per 100 seeds HILUM COLOR: (Mature Seed) 3 = Brown 4 = Gray 5 = Imperfect Black COTYLEDON COLOR: (Mature Seed) 1 = Yellow 2 = Green SEED PROTEIN PEROXIDASE ACTIVITY:	Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed) 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17') 2 = Shiny ('Nebsoy'; 'Gasoy 17') 3. SEED SIZE: (Mature Seed) 5. Grams per 100 seeds 4 = Gray 5 = Imperfect Black COTYLEDON COLOR: (Mature Seed) 1 = Yellow 2 = Green SEED PROTEIN PEROXIDASE ACTIVITY:	Specify)
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COTYLEDON COLOR: (Mature Seed) 1 1 = Yellow 2 = Green SEED PROTEIN PEROXIDASE ACTIVITY:	
1 1 = Yellow 2 = Green SEED PROTEIN PEROXIDASE ACTIVITY:	c 6 = Black 7 = Other (Special
SEED PROTEIN PEROXIDASE ACTIVITY:	
SEED PROTEIN ELECTROPHORETIC BAND:	
	
1.= Type A (SP1 ^a) 2 = Type B (SP1 ^b)	
HYPOCOTYL COLOR:	****
1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Was a Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')	
	oodworth'; 'Tracy')
LEAFLET SHAPE:	oodworth'; 'Trecy')
3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Specify)	oodworth'; 'Tracy')

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17		960005
12. LEAF COLOR: 1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ("Corsoy 79"; "Bra	RECEIV USDA-AMS	ED -PVP0
★ 13. FLOWER COLOR: 1 1 = White 2 = Purple	3 = White with purple throat		P2.49
	Black		
★ 15. PLANT PUBESCENCE COLOR: 2 1 = Gray 2 = Brown (Tawny) (Lig	ht Tawny)		
16. PLANT TYPES: 1 = Stender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')		
17. PLANT HABIT: 1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	2 = Semi-Determinate ('Will')		
18. MATURITY GROUP: 0 5 1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII	4 = I 5 = II 6 = III 12 = IX 13 = X	7 = IV 8 = V	
T 19. DISEASE REACTION: (Enter 0 ≈ Not Tested; 1 = Suscept BACTERIAL DISEASES: ★ 0 Bacterial Pustule (Xanthomonas phaseoli var. sojen ★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 0 Wildfire (Pseudomonas tabaci)			
FUNGAL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)			
O Race 1 O Race 2 O Race 3 O Target Spot (Corynespora cassiicola) O Downy Mildew (Peronospora trifoliorum var. mansh O Powdery Mildew (Microsphaera diffusa)	0 Race 4 0 Race 5	Other (Specify)	1063
Brown Stem Rot (Cephalosporium gregatum) O Stem Canker (Diaporthe phaseolorum var. caulivora)			

19.	. DISEASE REAC	FION: (Enter 0 = Not Tested: 1 = 5	Susceptible; 2 = Resistant) (Continued)	
		ASES: (Continued)	The state of the s	Selection of Administration (Control of Administ
*	1 Pod and	Stem Blight (Diaporthe phaseolorus	m var: soiael	
		eed Stain (Cercospora kikuchii)		
		mia Root Rot (Rhizoctonia solani)		
		thora Rot <i>(Phytophthora megaspen</i>	na var. sniael	
*	1 Race 1		ce 3 1 Race 4 1 Race	5 0 5 1
	1 Race 8		ner (Specify)	5 Race 6 Race 7
	لسشا ViRAL DISEAS	التا التا	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		it (Tobacco Ringspot Virus)		
		osaic (Bean Yellow Mosaic Virus)		
*		fosaic (Cowpea Chlorotic Virus)		
		e (Bean Pod Mottle Virus)		
*	$\overline{\Box}$			
	NEMATODE DIS	le (Soybean Mosaic Virus)		
*	0 Race 1	Syst Nematode (Heterodera glycines		
•	=	Race 2 Race	Race 4 0 Other	(Specify)
	$\overline{}$	natode (Hoplolaimus Colombus)		-
*	=	Root Knot Nematode (Melaidogyne		
*		loot Knot Nematode (Meloidogyne	•	
i		ot Knot Nematode (Meloidogyne an		
		lematode (Rotylenchulus reniformi		
	0 OTHER DI	SEASE NOT ON FORM (Specify):		
20. PI	HYSIOLOGICAL R	ESPONSES: (Enter 0 = Not Teste	d: 1 = Seprentifica: 2 = Resistant	A.1.11.
*		sis on Calcareous Soil	at a compositional of a Lander (Marie)	
ſ		ify)		
21, IN		: (Enter 0 = Not Tested; 1 = Susce		
- 1	. 1	nn Beetle (Epilachna varivestis)	and the second of the second o	
7		•••	ta de ma	•
Ī	Other (Speci	z. ,	•	
		· vi		
	HARACTER	ARIETY MOST CLOSELY RESER		
	nt Shape	NAME OF VARIET	0.0.11.0.12.1	NAME OF VARIETY
	f Shape	9254 ST2250	Seed Coat Luster Seed Size	9254
Lea	f Color	9241	Seed Shape	ST2250
Leat	Size	ST2250	Seedling Pigmentation	9231 9342
				JJ74

FORM LMGS-470-57 (6-83)

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	LEAFLET SIZE		ITENT	SEED SIZE G/100	NO.
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	SEEDS/ POD
9255 Submitted	127.3	1.9	84			42.0	21.6	15	3
ST2250 Name of Similar Variety	127.5	1.6	82	antan e e e e e e e e e e e e e e e e e e e		41.8	22.3	15	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
 - 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci. 33: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol P1201-19.

22

Exhibit D:

In Exhibit C we have identified 9255 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle. This does not mean we consider 9255 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we have chosen to be conservative and have identified 9255 as "susceptible". In Exhibit C we have identified the plant pubescence color of 9255 as "tawny". 9255 is actually light tawny (gene symbol td).

Exhibit E: Statement of the Basis of Applicants Ownership

Variety 9255 was originated and developed by plant breeders (U.S. nationals) from whom, by agreement, Pioneer Hi-Bred Int'l, Inc. has obtained exclusive rights to 9255. No rights to such invention, discovery or development are retained by the plant breeder or any other party.